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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

PHAN, TRONG Q

ART UNIT PAPER NUMBER

2818

DATE MAILED: 10/29/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/924,856

Applicant(s)

HAMPEL ET AL.

Examiner

TRONG PHAN

Art Unit

2818

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 18 September 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) 1-47 is/are pending in the application.
- 4a) Of the above claim(s) 1-7 and 38 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 8-37 and 39-47 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

***Drawings***

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features as recited in claims 15-24, 26 and 30 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Only Figs. 14-15 of the present invention show the XOR circuits in combination with the serializer /deserializer circuits but claims 15-24 are not readable on these Figs. 14-15 of the present invention.

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 8, 15-24, 26 and 30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8, no antecedent basis for "first data" (line 2).

Claim 15, it is not clear what the second plurality of terminals (lines 7-8) are since their connective relationships are not defined.

Claims 15-24, 26 and 30 are vague and indefinite since they are not readable on Figs. 14-15 of the present invention.

Claim 22, no antecedent basis for "first data" (line 3).

Claim 26, no antecedent basis for "the first plurality of XOR circuits" (line 5).

Claim 30, no antecedent basis for "second data" (line 3).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 8-11, 13-14 and 39-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawagoe, 5,680,354, in view of Koshikawa, 5,881,019.

Kawagoe, 5,680,354, discloses in Fig. 1 an apparatus comprising:  
a first XOR circuit Ex having a first input to receive a first data in a first format at terminal 6; a second input to receive a periodic address signal S2 other than the first data; and an output to provide the first data in a second format through inverter 8 and a first buffer; wherein: the first XOR circuit Ex clocked by the periodic address signal S2 other than the first data in the first format at terminal 6 writing data to the memory device 1 as recited in claim 39;  
a second XOR circuit ExO having a first input coupled to the output of the first XOR circuit Ex at node I/O; a second input to receive a periodic address signal S2 other than the first data; and an output to provide the first data in the first format to terminal 6; output circuit 7 being obviously considered as a second buffer as recited in claim 14..

What is not shown in Fig. 1 of Kawagoe, 5,680,354, is the burst counter as recited in claim 11.

Koshikawa, 5,881,019, discloses in Fig. 1 Prior Art the teaching of using burst counter 8 for latching the internal address signal IADD to generate the address signal YADD (see lines 61-65, column 2).

It would have been obvious under 35 USC 103(a) to one of ordinary skill in the art at the time of the invention was made to utilize the burst counter 8 in Fig. 1 Prior Art of Koshikawa, 5,881,019, for connecting to the output of circuit 4 in Fig. 1 of Kawagoe, 5,680,354, for latching the address signal S2 in order to generate the address signal to XOR circuits Ex and ExO.

5. Claims 15-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilson et al., 5,295,188, in view of Sumida et al., 4,071,889.

Wilson et al., 5,295,188, discloses in Fig. 3 a system comprising:  
a first circuit 56 having a plurality of output terminals each being connected to each first input of each of a first plurality of XOR gates 74;  
memory 60 having a number of memory locations as matrix T (see lines 40-42, column 13) and the noise bits above and to the right of the diagonal submatrices in the matrix T (see lines 3-4, column 13) which are pseudorandom numbers (see claims 10 and 22) such as recited in claim 36;  
a second buffer memory circuit 78 (see line 18, column 14) having a plurality of input terminals connected to the outputs of the first XOR gates 74;  
a second plurality of XOR gates 84.

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What is not shown in Fig. 3 of Wilson et al., 5,295,188, is the shift register as recited in claims 16-17 and 19-20.

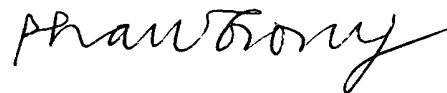
Sumida et al., 4,071,889, discloses in Fig. 7 a circuit having a shift register 512 acting as a buffer memory (see lines 11-13, column 12).

It would have been obvious under 35 USC 130(a) to one of ordinary skill in the art at the time of the invention was made to utilize the shift register 512 in Fig. 7 of Sumida et al., 4,071,889, for the buffer memory 78 in Fig. 3 of Wilson et al., 5,295,188, for the purpose of reading data.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG PHAN whose telephone number is (703) 308-4870. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (703) 308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-4021 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



TRONG PHAN  
PRIMARY EXAMINER

October 27, 2002